

1754 #4 BT
8-22-02

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/023,256
Filing Date	December 18, 2001
First Named Inventor	Rex Eugene Murray
Group Art Unit	1754
Examiner Name	Unassigned
Attorney Docket Number	2001U011.US

Total Number of Pages in This Submission **8**
(references)

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ENCLOSURES (check all that apply)

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- ☐ Preliminary Amendment / Response
 - ☐ After Final
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- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
 - ☒ 1449 Form
 - ☒ Copies of References
- ☐ Certified Copy of Priority Documents)
- ☐ Response to Missing Part/ Incomplete Application

- ☐ Assignment Papers (for an Application)
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition Routing Slip (PTO/SB/69) and Accompanying Petition
- ☐ To Convert a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund

- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
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- ☐ Status Letter
- ☒ Additional Enclosure(s) (please identify below):

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REMARKS

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Or Individual name	Osborne K. McKinney	Registration No.	40,084
Signature			
Date	August 16, 2002		

CERTIFICATE OF MAILING

I hereby certify having information and a reasonable basis for belief that this correspondence will be deposited with the United States Postal Service as first class mail in an envelope addressed to: Honorable Commissioner for Patents, Washington, D.C. 20231 on this date: August 16, 2002

Typed or printed name **Tammy L. Hodges**

Signature		Date	August 16, 2002
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Murray, Rex E.

SERIAL NO.: 10/023,256

FILED: December 18, 2001

FOR: Heterocyclic-Amide Catalyst
Compositions for the
Polymerization of Olefins

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EXAMINER: Unassigned

GROUP ART UNIT: 1754

ATTY. DOCKET NO.: 2001U011.US

DATE: August 16, 2002

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Honorable Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with Title 37, Sections 1.56, 1.97 and 1.98 of the Code of Federal Regulations, and pursuant to Applicant's duty of candor and good faith toward the United States Patent and Trademark Office, the Examiner's attention is drawn to the art indicated on the attached PTO-1449 form.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form to the undersigned attorney.

This disclosure statement should not be construed as a representation that a search has been made or that no other material information, as defined in 37 CFR § 1.56(a), exists.

A copy of each document is enclosed. Some of the documents may have markings thereon. No significance is meant to be attached to the markings.

We believe that this disclosure complies with the requirements of 37 CFR § 1.56, 1.97 and 1.98, and the Manual of Patent Examining Procedures § 609. If for any reason the Examiner finds that the disclosure or documents do not comply with these sections, notification is respectfully requested.

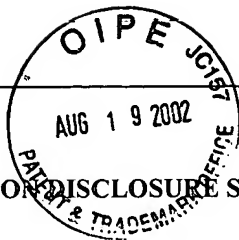
If there are any matters or issues outstanding, the Examiner is encouraged to contact the attorney of record at the telephone number listed below.

Respectfully submitted:

A handwritten signature in black ink, appearing to read 'Osborne K. McKinney', written over a horizontal line.

Osborne K. McKinney
Attorney for Applicant
Registration No. 40,084

Univation Technologies LLC.
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INFORMATION DISCLOSURE STATEMENT

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APPLICANT

Murray, Rex E.

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,096,676	08/01/2000	Murray	502	117	
	AB						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AC	EP 0 320 169 A2	14.06.89	Europe				
	AD	EP 0 349 886 B1	20.09.95	Europe				
	AE	EP 0 509 233 A2	21.10.92	Europe				
	AF	EP 0 761 694 B1	12.03.97	Europe				
	AG	EP 0 803 520 A1	29.10.97	Europe				
	AH	DE 42 02 889 A1	05.08.93	Germany				
	AI	WO 92/12162	23.07.92	PCT				
	AJ	WO 96/23010	01.08.96	PCT				
	AK	WO 96/23101	01.08.96	PCT				
	AL	WO 96/33202	24.10.96	PCT				
	AM	WO 97/02298	23.01.97	PCT				

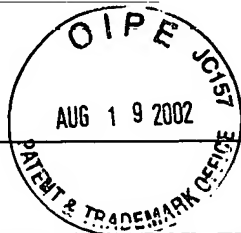
OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

	AN	Gibson et al., "Synthesis and structural characterisation of aluminum imino-amide and pyridyl-amide complexes: bulky monoanionic N,N chelate ligands via methyl group transfer" Journal of Organometallic Chemistry 550, (1998) 453-456.
	AO	Fuhrmann et al., "Octahedral Group 4 Metal Complexes That Contain Amine, Amido, and Aminopyridinato Ligands: Synthesis, Structure, and Application in α -Olefin Oligo- and Polymerization" Inorg. Chem 1996, 35, 6742-6745 (Feb.).
	AP	George J.P. Briotovsek et al., "Novel Olefin Polymerization Catalysts Based on Iron and Cobalt" Chem. Commun., 1998 849-850 (May).

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	BA						
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FOREIGN PATENT DOCUMENTS

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							YES	NO
	BC	WO 97/45434	04.12.97	PCT				
	BD							

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

BE	Deelman et al., "Lithium Derivatives of Novel Monoanionic Di-N,N'-chelating Pyridyl- and Quinolyl-1-azaallyl Ligands" <i>Organometallics</i> 1997, 16, 1247-1252 (Aug.).
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BG	Hitchcock et al., "Transformaton of the Bis(trimethylsilyl)methyl into Aza-allyl and β -Diketimato Ligands; the X-Ray Structures of [Li{N(R)C(Bu')CH(R)}] ₂ and [Zr{N(R)C(Bu')CHC(Ph)N(R)}Cl ₃](R = SiMe ₃)" <i>J. Chem. Soc., Chem. Commun.</i> (1994) 2637-2638 (Aug.).
BH	Hitchcock et al., "Transformaton of the Bis(trimethylsilyl)methyl into a β -Diketimato Ligand; the X-Ray Structure of [Li(L'L')] ₂ . SnCi(Me) ₂ (L'L') and SnCi(Me) ₂ (LL), (L'L' = N(R)C(Ph)C(H)C(Ph)NR, LL = N)H)C(Ph)NH, R - SiMe ₃)" <i>J. Chem. Soc., Chem. Commun.</i> (1994) 1699-1700 (May).
BI	Clarke, et al., "Structural Investigations of the Dipyrromethene Complexes of Calcium(II), Nickel(II) and Copper(II)" <i>Inorganica Chimica Acta</i> . 166 (1989) 221-231 (Jun.).
BJ	Tjaden et al. "Synthesis, Structures, and Reactivity of (R ₆ -acen)ZrR' ₂ and (R ₆ -acen)Zr(R') ⁺ Complexes (R = H, F; R' = CH ₂ Me ₃ , CH ₂ Ph)" <i>Organometallics</i> 1995, 14, 371-386 (Jul.).
BK	Corazza et al., "cis- and trans-Dichloro-derivatives of Six- and Seven-coordinate Zirconium and Hafnium bonded to Quadridentate Schiff-base Ligands. Crystal Structures of [Zr(acen)Cl ₂ (thf)], [M(salphen)Cl ₂ (thf)] 0.5thf, [M(acen)Cl ₂ , (M = Zr or Hf), and [Zr(msal)Cl ₂] acen = N,N'-ethylenebis(acetylacetonimine), salphen = N,N'-o-phenylenebis(salicylideneimine), msal = N-methylsalicylideneimine, and thf = tetrahydrofuran" <i>J. Chem. Soc. Dalton Trans.</i> (1990) 1335-1344 (Aug.).

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	CA						
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FOREIGN PATENT DOCUMENTS

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							YES	NO
	CC							
	CD							

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

CE	Cozzi et al., "Oxazoline Early Transition Metal Complexes: Functionalizable Achiral Titanium(IV), Titanium(III), Zirconium(IV), Vanadium(III), and Chiral Zirconium(IV) Bis(oxazoline) complexes" Inorg. Chem (1995), 34, 2921-2930, (Dec.).
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CG	Gomez et al., "Mono- η -cyclopentadienyl-benzamidinate chloro compounds of titanium, zirconium and hafnium" Journal of Organometallic Chemistry 491 (1995) 153-158 (Aug.).
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CK	Gornitzka et al., "Coordination of the Bis(pyridyl)methyl Substituent to Group 1 and 13 Metals" Organometallics 1994, 13, 4398-4405 (May).
CL	Roesky et al., "Benzamidinatokomplexe mit Haupt- und Nebengruppen-Elementen - Strukturen von PhC(NSiMe ₃) ₂ TiCl ₂ and PhC(NSiMe ₃) ₂ MoO ₂ " Chem. Ber 121, 1403-1406 (1988) (Feb.).

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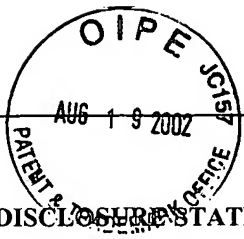
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DE	Cloke et al., "Zirconium Complexes incorporating the New Tridentate Diamide Ligand $[(Me_3Si)N\{CH_2CH_2N(SiMe_3)\}_2]^{2-}$ (L); the Crystal Structures of $[Zr(BH_4)_2L]$ and $[ZrCl\{CH(SiMe_3)_2L\}]$ " J. Chem. Soc. Dalton Trans 1995 25-30 (Jul.).
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DK	Kol, et al., "Synthesis of Molybdenum and Tungsten Complexes That Contain Triamidoamine Ligands of the Type $(C_6F_5NCH_2CH_2)_3N$ and Activation of Dinitrogen by Molybdenum" J. Am. Chem. Soc. 1994, 116, 4382-4390, (Oct.).
DL	Bei et al., "Synthesis, Structures, Bonding, and Ethylene Reactivity of Group 4 Metal Alkyl Complexes Incorporating 8-Quinolinolato Ligands" Organometallics 1997, 16, 3282-3302 (Mar.).

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EB						

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						YES	NO
EC							
ED							

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

EE	Tsukahara, et al., "Neutral and Cationic Zirconium Benzyl Complexes Containing Bidentate Pyridine-Alkoxide Ligands. Synthesis and Olefin Polymerization Chemistry of $(pyCR_2O)_2Zr(CH_2Ph)_2$ and $(pyCR_2O)_2Zr(CH_2Ph)^+$ Complexes" <i>Organometallics</i> 1997, 16, 3303-3313 (Mar.)
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EG	Durfee et al., "Formation and Characterization of η^2 -Imine and η^2 -Azobenzene Derivatives of Titanium Containing Ancillary Aryloxide Ligation" <i>Organometallics</i> , vol. 9, No. 1, 1990, pp 75-80, (Jan.).
EH	Lappert et al., "Recent studies on metal and metalloid bis(trimethylsilyl) methyls and the transformation of the bis(trimethylsilyl)methyl into the azaallyl and β -diketonimato ligands" <i>Journal of Organometallic Chemistry</i> 500, (1995) 203-217, (Sep.).
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